UNIVERSITY OF SALAHADDIN COLLEGE OF SCIENCE DEPARTMENT OF BIOLOGY

ſ)	1/	Give a	brief	answer	for	each	statement	according	to	the	nicture	provided:
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1. A / Name and classify this culture medium

B/Which types of bacteria would be isolated on this medium

- 2. A/ Name this method.
 - B/ Aim of this method.
- 3. A. Name the culture medium (uninoculated)
 - B. What is the colony and growth characteristic?
 - C. Identify the isolated bacteria.
- 4. A. Name the test B. Identify the positive tube
- 5. A/ What is the inoculation technique in tubes A and B?

B/ Tube B shows different reactions, mention all of them.....

A/ Which tube is the MIC?

B/ Which tube is the MBC?

C/ How...explain?

The agar was used in antibiotics sensitivity test by Method, because this bacterium is

A/ Write the name of this group of tests.

B/ Name the pH indicator in tube **D**.

C/ Give an example of the bacterium with the same results.

6. A / Identify the bacterium (Genus only) in 1 and 2

B/ Type of specimen (Direct or indirect).in 1 and 2

Q 2/ Answer the following questions in the space provided.

A/ What will you do in the following situations?

- 1. After using the microscope.
- 2. If you are injured in lab.

B/ How can you differentiate between β – hemolytic *Streptococcus pyogenes* and *Streptococcus agalactiae*.

C/ What is the principle of the OXIDASE test? And what does it tell you about the bacterial oxygen requirements? MENTION A POSITIVE BACTERIAL EXAMPLE

D/ Our recipe (Direction) for MacConkey agar is to suspend 50 grams of powder for preparing 1 liter. How many grams of powder is needed to prepare 200 mL of MacConkey agar medium?

Q 3/ True or False: Place a T or F in front of each of the following questions:

- Microbiologist uses several types of primary media set at once to culture the specimen initially.
- · Differential media allow the growth of more than one microorganism of interest but with morphologically distinguishable colonies.
- Lysis of blood cells is due to streptolysin S&O in group B streptococci
- Neisseria meningitidis is difficult to treat.

Q 4/ If A patient with otitis media infection was diagnosed with streptococcus pnumoniae.

A: What is the specimen?

B. What are the steps required in identifying and diagnosing this bacterium?

Good Luck Dear...

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